



**Product Data Sheet &
General Processing Conditions**

**ZOVGOV® M50G4 90A
Ester-based Thermoplastic Polyurethane
Elastomer (TPUR/TPU)
Glass Fiber**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Primary Additive	20 %	20 %	
Specific Gravity	1.35	1.35	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0020 - 0.0030 in/in	0.20 - 0.30 %	D 955
MECHANICAL			
Impact Strength, Izod notched 1/8 in (3.2 mm) section	13.0 ft-lbs/in	694 J/m	D 256
unnotched 1/8 in (3.2 mm) section	No Break	No Break	D 4812
Tensile Strength	6500 psi	45 MPa	D 638
Tensile Elongation	> 30.0 %	> 30.0 %	D 638
Tensile Modulus	0.08 x 10 ⁶ psi	552 MPa	D 638
Flexural Strength	3200 psi	22 MPa	D 790
Flexural Modulus	0.08 x 10 ⁶ psi	552 MPa	D 790
Hardness Shore A, 10 s delay	90	90	D 2240

PROPERTY NOTES

Data herein is typical and not to be construed as specifications.

Unless otherwise specified, all data listed is for natural or black colored materials. Pigments can affect properties.

GENERAL PROCESSING FOR INJECTION MOLDING

	English	SI Metric
Injection Pressure	8000 - 15000 psi	55 - 103 MPa
Melt Temperature	415 - 425 °F	213 - 218 °C
Mold Temperature	60 - 140 °F	16 - 60 °C
Drying	3 - 4 hrs @ 200 °F	3 - 4 hrs @ 93 °C
Moisture Content	< 0.02 %	< 0.02 %

PROCESSING NOTES

Desiccant Type Dryer Required.